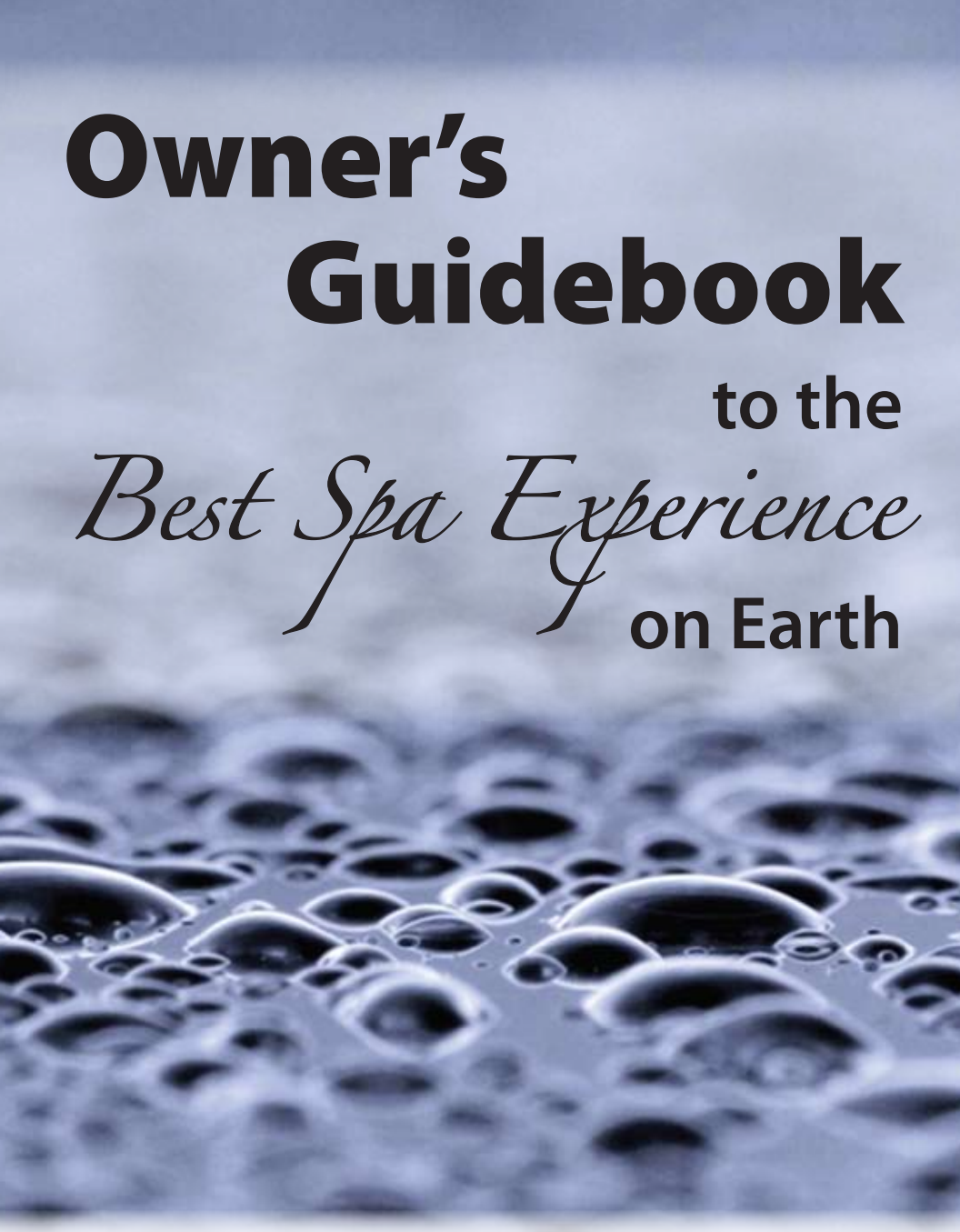
Owner's Guidebook

to the *Best Spa Experience* on Earth



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Raindance Spas

Owner's Manual

This Owner's Manual will acquaint you with the operation and general maintenance of your new Raindance Spa. Please keep this manual available for reference.

If you have any questions about any aspect of your spa's set up procedures, operation or maintenance, contact Raindance Spa's Technical Support at Raindance Spa 866-996-2623.

IMPORTANT: Raindance Spa reserves the right to change specifications or designs, without notification and without incurring any obligation.

Serial number information will be located inside electrical access panel. The tag is black and always located on the right hand side of the pump. For your convenience, we recommend copying the number on the next page.

SPA INFORMATION

Date purchased:

.

Date installed:

.

Dealer name:

.

Dealer address:

.

Dealer telephone:

.

Spa model and serial number:

.

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Please take the time to read the content in its entirety to avoid any warranty issues.

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IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS!!!!
SAVE THESE INSTRUCTIONS!!

When installing and using this electrical equipment, basic safety precautions should always be followed including the following:

1. Danger: To reduce the risk of injury, do not ever permit children to use the spa without adult supervision.

2. Warning: Risk of Child Drowning: Exercise extreme caution to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the spa unless supervised at all times.

3. Warning: To reduce the risk of electrical shock, replace damaged or defective wiring immediately.

4. Danger: To reduce the risk of injury to persons, DO NOT REMOVE Suction Fittings.

5. A pressure wire connector is provided on the side of the control box to permit connection of a minimum No. 8 AWG (8.4mm) solid copper bonding conductor between this point and any metal equipment, metal enclosures of electrical equipment, metal water pipe or conduit within 5 ft (1.5m) of the unit, as need to comply with local requirements and/or electrical code. Install the spa at least 5 ft (1.52m) from all metal surfaces. A spa may be installed within 5 ft of metal surfaces if metal surfaces are permanently connected by a minimum No. 6 AWG solid copper bonding conductor attached to the wire conductor on the terminal box that is provided for this purpose. (National Electrical Code ANSI/NFPA 70)

6. A Ground-Fault Circuit Interrupter must be installed near the spa

pack. Before each use, with the plug connected to the power supply and with the unit operating, push the Test Button. The unit should now operate normally. If the interrupter fails to operate in this manner, there is a ground current flowing indicating the possibility of an electric shock.

7. Danger-Risk of Electric Shock. Install at least 5 feet (1.5M) from all metal surfaces.

8. Danger-Risk of Electric Shock. Do not permit any external electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5m) of a spa or hot tub.

9. To reduce the risk of injury:

A. The water in a spa or hot tub should never exceed 40 degrees C (104 degrees F). Water temperatures between 38 degrees C and 100 degrees F are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 -15 minutes) and for young children.

B. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa or hot tub water temperatures to 30 degrees C (100 degrees F).

C. Before entering a spa or hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulation devices may vary as much as plus or minus 3 degrees C (5 degrees F).

D. The use of alcohol, drugs, or medication before or during spa or hot tub use may lead to unconsciousness with the possibility of drowning.

E. Persons suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems, or

diabetes should consult a physician before using a spa or hot tub.

F. Persons using medication should consult a physician before using a spa or hot tub since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

10. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code, ANSI/NFPA 70-1987. The disconnecting means must be readily accessible to the tub occupant but installed at least 5 feet (1.5M) from the tub water. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 F. The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include (1) Unaware of impending hazard, (2) Failure to perceive heat, (3) Failure to recognize the need to exit spa, (4) Inability to exit spa, (5) Fetal damage to pregnant women, and (6) Unconsciousness resulting in a danger of drowning.
WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

11. Audio/Video Equipped Units: The instruction manual for spas equipped with audio/video components shall be provided with the following or equivalent:

- CAUTION-Risk of Electric Shock. Do not leave compartment door open.
- CAUTION-Risk of Electric Shock. Replace components only with identical components.
- DO NOT operate the audio/video controls while inside the spa
- WARNING-Prevent Electrocution. Do not connect any auxiliary

components (for example, cable, additional speakers, headphones, additional audio/video components, etc.) to the system.

- These units are not provided with an outdoor antenna; when provided, it should be installed on accordance with Article 810 of the National Electrical Code, ANSI/NFPA 70.
- DO NOT service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.
- When the power supply connections or power supply cord(s) are damaged; if water is entering the audio/video compartment or any electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to a qualified service personnel.
- The unit should be subjected to routine maintenance (for example, once every 3 months) to make sure the unit is operating properly.

Site Selection

IMPORTANT: Site selection and preparation are your responsibility. Carefully read these instructions and consult your authorized Raindance Spa dealer if you have any questions.

Manufacturer recommends a poured, reinforced concrete slab with a minimum thickness of 5 inches. Wood decking is also acceptable provided it is constructed so that it meets the requirements outlined below. The spa must be installed in such a manner as to provide drainage away from the spa. Placing the spa in a depression without provisions for proper drainage could allow rain, overflow and other casual water to flood the equipment and create a wet deck. Install so as to permit access to the equipment, either from above or below, for servicing. Make certain that there are not any obstructions which would prevent removal of the cabinet side panels and access to the jet's components, especially on the side with the equipment bay doors. If the allocated site appears to be unstable or unsafe, have it checked by a building contractor.

Site

Select a level surface so that the water is level and weight distribution is maintained equally. Any deck, patio or floor with adequate support should be suitable to carry the weight of the spa filled with water and people. To determine if your spa site can withstand the weight of the tub, water, and bathers, multiply the number of gallons required to fill your spa times 8(water weight approximately 8 lbs per gallon) then add the weight of the Spa and the bathers to determine the total weight.

You probably have a spot picked out for you new spa, whether it's indoors or outdoors, on a patio or on a deck. Just make sure you check the following:

- Always put your spa on a structurally sound, level surface. A filled spa can weigh a great deal. Make certain that the location you choose can support the weight of your filled spa.
- Don't forget to level your spa before filling it.
- Locate your equipment compartment, which houses all of the electrical components, in a place where water will drain away from it. Allowing water into the equipment compartment can damage the electronics, or may result in tripping your houses circuit breaker.
- Leave yourself easy access to the circuit breakers in the subpanel (230 volt models).
- Never let water get into the subpanel (230 volt models), or into the electrical outlet

that your spa is plugged into. Your 230 volt spa's subpanel is rain tight when installed correctly with the door closed.

- Leave access to the equipment compartment for periodic spa care and maintenance.

The spa should be placed a minimum of 3 feet from all structures to allow access to all sides for servicing and repair. If the spa cannot be serviced and repaired due to un-accessibility of sides, it is the customer's obligation to have tub drained, moved, and placed in an accessible site.

Start –Up Instructions

Always refill spa through one filter housing to purge any trapped air from pump intakes. Failure to do so may cause air to be trapped in wither pump #1 or the circulation pumps intake creating an (air lock), preventing either pump from circulating water. Insure both shutoff valves are fully open. Re-install filter cartridge, filter housing assembly and lid. Make sure filter cartridge is clean before installing.

Filter Housing Assembly

Remove filter lid and rotate top filter housing counterclockwise and remove assembly. Remove filter cartridge upward, and inspect element for cleanliness. The proper way to fill your spa using a common garden hose is with cartridge element removed. Once spa is filled with water 1" below pillows, re-install filter cartridge and housing assembly locking it back in place replacing filter lid.

Fiberoptic Lighting

All replacement lighting must be provided by Raindance Spas or J & J Electronics. Warranty will be void with any other replacement.

Draining and Refilling Spa

Draining:

Turn the power off to the system by turning off the GFCI breaker. Remove the drain cap from the drain valve and attach a garden hose to the drain bib. Turn the drain bib counterclockwise to open and allow water to drain. Close drain bib by gently turning clockwise (carefully and do not over-tighten) and install drain bib cap.

Filling:

Water level is centered in area of weir door or 1 inch above extended skimmer opening. Never fill past the recommended level. Check to see if all slice valves are open. The slice valves should have the handles pulled out as far as possible when open. The drain bib should be closed and drain cap installed. Fill your spa with water by removing you filter lid (all models may not have a lid) and place the garden hose into the filter housing. This will help prevent air from being trapped in the plumbing lines commonly known as an air lock.

Jets, Valves and Air Controls

Jets

The jet inserts in the spa that have a textured feel are adjustable allowing you to increase or decrease the water flow by turning the jet face clockwise or counterclockwise. This makes it easier to get the right pressure needed in the right areas. Jets with a smooth face are not adjustable. Please try adjusting the jets to acquire the proper technique.

Slice Valves

These valves allow removal of equipment without having to drain the spa. The T-handles should always be in the open position, allowing water flow before operating the spa. The slice valves are located on the intake and discharge sides of the pump(s) they will be placed down in closed position.

Air Control Valves

Turning the valve counterclockwise increases the airflow and the pressure of the jets. Turning the valve clockwise will control the air supply for less pressure. All Air Control Valves are located on the top of the spa and used to control the amount of air that mixes with the water flow of the jets.

Waterfall Valve

By turning the handle counterclockwise the water flow will decrease. By turning the handle clockwise, the water flow will increase. The Waterfall Valve is located at the top of the spa and is similar to the air control valve.

Diverter Valve

This valve allows you to increase or decrease pressure (by turning handle from side to side) in certain areas of the spa. The diverter valve can balance jet pressure throughout the spa. The Diverter Valve is located on the top of the spa and is large in size to left corner of keypad. Diverter Valve can only be moved when the pump(s) are turned off. Otherwise, damage will occur to the diverter valve.

General Maintenance

Every two to five months, depending on frequency of use, drain your spa, clean with spa multi-purpose cleaner (found in your chemical maintenance kit) and polish with a silicone sealant polish.

To temporarily remove foam, apply anti-foaming agent to foamy areas. To correct the condition, be sure the water is balanced.

Be sure to add a metal build up inhibitor each time you are refilling your spa. Shock treat the water with a non-chlorine shock each week.

It is important to use scale and stain inhibitor weekly to prevent calcium deposits from damaging your spa and equipment. If this happens, it could void the warranty. Refer to your chemical handbook for further information on water chemistry and troubleshooting.

DRAINING THE WATER

Locate drain hose near or around the equipment. Remove cap and attach garden hose. Open the back valve on hose bib to drain spa.

FILTER MAINTENANCE

At least once a week, check and clean the skimmer basket and weir to insure proper filter flow. Remove leaves, foreign matter and debris when present. It is very important to keep your spa filter cartridge clean and free of particles that can obstruct water flow. A clean filter will permit the hydrotherapy system to function properly and also allows more efficient filtering. Depending on how frequently your spa is used, we recommend cleaning the spa filter cartridge every four to six weeks. If this is not done, the filter may clog and restrict water flow, which causes inadequate filtration and poor jet performance.

Electrical Requirements and Servicing

The Spa shall be hooked up by a licensed electrician and observing all municipal codes. Codes may vary from state to state. Check with a local electrician to find out wiring requirements for your area.

Minimum specifications: A # 6/3 wire (this is a 4 wire system as the ground wire is not referred to) making up a #6 Black (hot), a #6 Red (hot), a #6 White (neutral), and a #6 Green (ground). A 60 amp 240 volt breaker for 3 pump hot tubs and 50 amp 240 volt breaker for all other 240 volt applications. A corresponding GFCI either 60/50 amp depending on electrical needs.
We recommend using a "square D" GFCI as wired in diagram.

IMPORTANT NOTICE: The electrical wiring if this spa must meet the requirements of the National Electrical Code (NEC) and any applicable state or local codes. The electrical circuit must be installed by a qualified electrician and approved by a local building/ electrical inspection authority.

1. This spa must be permanently connected (hard-wired) to the power supply. No plug-in connections or extension cords are to be used in conjunction with the operation of this spa. Supplying power to the spa which is not in accordance with these instructions will code both of the independent testing agency listings and the manufacturer's warranty.

2. The power supplied to this spa must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.

3. To determine the current, voltage, and wire size required, refer to section "Power Requirements" Wire size must be appropriate per NEC and/or local codes.

4. We recommend type THHN wire.

5. All wiring must be copper to ensure proper connections. When using wire larger than #6 (10mm2), add a junction box near the spa and reduce to short lengths of #6 (10mm2) wire to connect to spa.

6. The electrical supply for this product must include a suitably rated circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code. ANSI/NFPA 70. The disconnecting means must be readily accessible to the spa's occupant but installed at least 5 feet (1.5m) from spa water.

7. The electrical circuit supplied for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680-42.

8. To gain access to the spa's power terminal block, remove the screws and cabinet panel setting it aside, then remove the securing screws from the panel on the control equipment pack system.

9. Select the power supply inlet you want to use and remove the cabinet panel from the front of the spa to allow you to feed the cable through to the control box. Install the cable with connectors through the conduit.

10. Connect wires, color to color, on terminal blocks and TIGHTEN SECURELY! All wires must be hooked up securely or damage could result.

11. Install control box door panel with screws and re-install the cabinet side panels.

Filter Maintenance

The filter(s) in your spa should be cleansed at least every 5-6 weeks, depending on spa usage. This will ensure that the water is being filtered properly, and there is no restriction in the filer due to dirt and grease build-up.

Cleansing the filter can be done easily using a Filter Degreaser solution and following the directions on the bottle. Soak filter in a degreaser and power wash with a garden hose. It is recommended to have a second filter, which can be cleaned between filter changes. This will enable you to quickly exchange the dirty filter with a clean filter and immediately start your spa up again.

Filter Removal: The filter system is the top-load type. This style is round, approximately 8" in length located in the corner of the spa below the water level when the spa is full). To remove basket turn counterclockwise ¼ turn removing the basket and lid, to re-install turn lid clockwise and lock into place.

Cleaning Filter (s): There are a few ways to clean your filter. A very effective way is to use a garden hose and nozzle with good water pressure. Start at the top of the filter spraying a side-to-side pattern downward, turning filter as necessary. It is recommended to clean filter (s) every month depending upon activity in the spa. Speak to your dealer about other methods of cleaning spa filters. Replace your filter (s) about every 6 months depending on activity. If your spa stops heating, please check to make sure the filter (s) are clean and free of debris before contacting the dealer.

Care of the Exterior

Spa Shell

Your spa shell is made of acrylic. Stains and dirt generally will not adhere to the surface. Using a soft rag or a nylon scrubber should easily remove most dirt. Most household chemicals are harmful to your spa's shell. See your dealer for the best product to use. The only products which have passed the manufacture's test are Soft Scrub and Windex. Sodium bicarbonate (baking soda) can also be used for minor surface cleaning. Always thoroughly rinse off any spa shell cleaning agent with fresh water.

NOTES: Iron and copper in the water can stain the spa shell if allowed to go unchecked. Ask your Raindance Spa's technician about a stain and scale inhibitor to use if your spa water has a high concentration of dissolved minerals.

The use of alcohol or any household cleaners other than those listed to clean the spa shell surface is NOT recommended. **DO NOT** use any cleaning products containing abrasives or solvents since they may damage the shell surface. **NEVER USE HARSH CHEMICALS!** Damage to the shell by the use of harsh chemicals is not covered under the warranty.

IMPORTANT: Some surface cleaners contain eye and skin irritants. Keep all cleaners out of the reach of children and use care when applying.

Maintenance Free Cabinet

Raindance Spa's consists of a rigid polymer that combines the durability of plastic with the beauty of redwood or gray looking cabinet. Cabinet will not crack, peel, blister, or delaminate. Cleaning consists of simply spraying the cabinet with a mild soap and water solution to remove any stains and residue.

Chemicals

Chemicals are used to sanitize the water and to balance the pH level. This is done to maintain clear and sanitary water at all times. When the water chemistry is out of balance, a number of things can happen: many types of bacteria form inside the warm waters of your spa and inside the plumbing and fittings. For this reason, the sanitized level must be constantly monitored and adjusted. The pH level affects how well the sanitizer works and the acidity level of the water. The closer to 7.2 the Ph, the more effective the sanitizing agent will work, and last.

Bromine is the most common form of sanitizer. Bromine has been found to be very compatible with warmer waters in the spa environment. Bromine is the most widely used chemical as a sanitizer in spas. A pH level of 7.2-7.8 is considered a satisfactory level with 7.4 being the ideal level. At this level, your sanitizer works more effectively and the water is close to a neutral pH level. As the pH level rises a little, more chemicals are needed to effectively eliminate the bacteria. However, as the pH lowers to 7.0, the water becomes more acidic to the equipment and lends itself to the rapid growth of bacteria. The opposite is also true that high Ph levels have caustic reactions. Chemicals affect pH levels and improper levels can even give a false Ph reading.

Therefore, it is important to keep your chemical balance in check as much as possible. Your warranty does not cover pH damage to your equipment such as cracking or peeling of jet housing. Continuous high Ph levels will cause sealing and will stop heater from working and very low Ph levels will cause trace metals in water and cause malfunctions.

Remember:

You cannot keep the chemicals perfectly balanced in a spa constantly. Don't try to keep everything in perfect order everyday. Check the chemical balance every two or three days. Maintain, as nearly as you can, an ideal level of sanitizer. Keep the pH level in the upper level of ideal range, somewhere around 7.4-7.8. If it drifts above this level, do not try to bring the level down rapidly.

A non-chlorine shock should be used a minimum of once per week to maintain accurate levels. Defoamer is available to reduce the foaming caused by high chemical levels. Be aware that too much Defoamer will cause cloudiness of the water. 1-inch Bromine tablet should be used in an adjustable floater for proper dispersal. When water chemistry is unstable or water turbidity (cloudy water) is present, drain and re-fill Spa.

Ozonator

First discovered in the 1840's, ozone has been used to treat drinking water for more than 90 years. Then in 1937, the Mohawk Cruiser Swim & Tennis Club in Bryam, NJ became the first commercial swimming pool in the United States to utilize an ozone-only oxidation and disinfecting system. Despite its long history of use as a drinking water oxidizer and sanitizer, ozone has only seen significant use in pools and spas in the U.S. in the last 15 to 20 years.

Ozone has found a niche in the spa industry as a very popular sanitizer. It is a very fast acting and powerful sanitizer that destroys almost all types of bacteria that it comes in contact with. However, it is only effective for a few minutes, so the supply must constantly be replenished. This is done by the use of an ozone generator. Although ozone is a very powerful sanitizer, it has no residual properties, which means that you must still use chemicals. However, the amount necessary will be greatly reduced. The low speed mode on pump 1 is the only mode in which the ozonator will operate.

Ozone is an unstable form of oxygen and will react with oxidized bacteria much more rapidly than the chemicals we use. Ozone creates no residuals or by-products when they oxidize or eliminate bacteria. The ozone generator produces ozone that is immediately introduced into the spa water by an injector system. Therefore, you will spend less time cleaning and adding chemicals and will use far fewer chemicals. This system provides a means of the interior of the spa with a soft cloth and warm water. This should adequately clean the acrylic surface. If necessary, apply a small amount of multi-purpose non-abrasive cleaner to the cloth to clean the badly soiled areas. Rapid disbursement throughout the water. Ozone is the pH neutral, so it does not affect the pH of the water. Therefore, the pH level will be more stable.

What Is Ozone?

- Ozone is "active oxygen" (Each ozone molecule consists of three oxygen atoms.)
- Ozone is a natural purifier.
- Ozone is the most powerful oxidizer safely used.
- Ozone is the alternative water purifier to traditional chemicals such as chlorine and bromine.

What Does Ozone Do?

- Ozone destroys bacteria, viruses, mold and mildew.
- Ozone eliminates spores, cysts, yeast, and fungus.
- Ozone eliminates oils and other contaminants in water.
- Ozone keeps water clean and sparkling clear.
- Ozone keeps water fresh.

CARE OF THE SPA PILLOWS

The spa pillows will provide years of comfort if treated with care. They have been positioned above the water level to minimize the bleaching effects of chlorinated water and other spa water chemicals. To extend their life, whenever the spa shell is being cleaned, the spa pillows should be removed and cleaned separately . Body oils can be removed with a mild soap and water solution. ALWAYS rinse pillows thoroughly to remove any soap residue. If the spa is not going to be used for a long period of time (during a vacation or if the spa is winterized) , or if when water is being super-chlorinated,. The spa pillows should be removed until the next use of the spa.

To remove and replace the spa pillows:

1. Carefully lift one end of the pillow away from the spa shell.
2. Continue lifting one end until all pillow retainers are released from the spa shell.

IMPORTANT: Just pulling the pillow straight up and out of the shell recesses will eventually damage the pillow. This abuse is not covered under warranty.

3. To re-install the spa pillow, carefully bend the pillow slightly to allow one of the pillow retainers to slip into recess in the back of the shell.
4. Keeping the pillow slightly bent, slide the other pillow retainer into the recess in the back of the sheet.
5. After all the pillow retainers are in place, press the pillow down into the recess in the spa shell.

DO'S AND DON'TS

DO Add all chemicals slowly with the hydro jets operating in high speed.

DO Use care when handling chemicals.

DO Store granulated chlorine in a cool, dry place to maintain the chlorine's freshness. Granulated chlorine will degrade if stored improperly or for a long period of time. Do not store in sunlight.

DO Maintain total alkalinity level within the recommended range of 80 to 120 ppm. The calcium hardness level should be maintained in the 120 to 250 ppm range.

DO Maintain the pH level within the recommended range of 7.4 to 7.6.

DO Maintain proper chemical balance to reduce the risk of catching or spreading infections.

DO Use granulated chlorine/ bromine produced specifically for portable spas.

DO Make sure the spa is connected to a Ground Fault Circuit Interrupter (GRCI) protected circuit. This GFCI is required by the National Electrical Code (NEC) and must be installed by a licensed electrician. Test the GFCI monthly.

DO Test the water with your hand before entering the spa to be sure it is comfortable.

DO Remember that wet surfaces can be slippery. Take care when entering and exiting the spa. Only enter by way of the steps in the spa. Do not step on spa edges or filter lids.

DO Use the thermal cover when the spa is not in use, empty or full.

DO Clean the filter cartridge weekly.

DO NOT Use swimming pool chemicals in your spa.

DO NOT Use household bleach (liquid sodium hypo chlorine).

DO NOT Use swimming pool (muriatic) acid to lower pH. Many swimming pool water

care products can cause damage to spa and equipment.

DO NOT Allow anyone to be in the spa while chemicals are being added or are dissolving.

DO NOT Use incorrect products such as Trichlor, which has a very low pH (2.6), dissolves very slowly, is highly concentrated, and was designed for concrete or plaster swimming pools. It will cause damage to your spa!

DO NOT Use the spa for long periods of time at temperatures over 104°F(40 C).

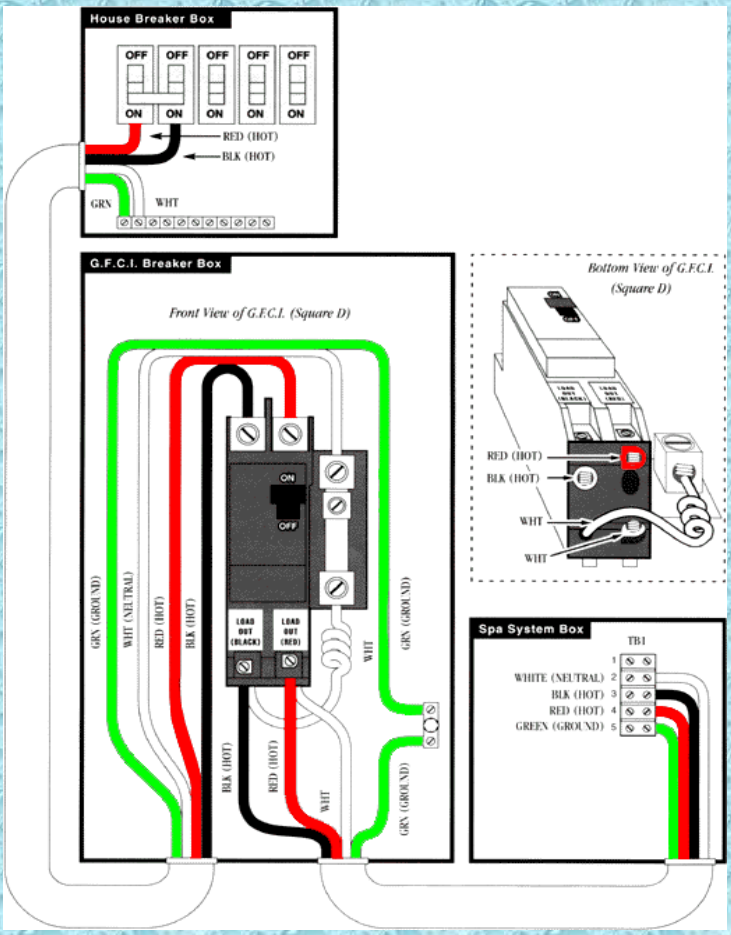
DO NOT Operate the spa without water. Turn the circuit breaker off before emptying the spa and while it is empty.

DO NOT Store chemicals in the spa's equipment box compartment!

DO NOT Open the electrical box. There are no user serviceable parts inside.

DO NOT Operate the pump(s) on hi-speed for extended periods of time with the cover on. Extended hi-speed pump operation will cause a slow build-up due to water friction, which could trip the spa's hi-limit thermostat.

Wiring Diagram



Remove Power from the spa/hot tub and circuit breaker panel BEFORE working on electrical equipment! Failure to comply with this requirement, can lead to electrical shock and/or electrocution! **This is a GENERAL GUIDE ONLY! USE this information at your OWN RISK!**

Consult with or hire a licensed electrician before beginning any work of this type.

Any hot tub or spa installation must have a remote cut off switch, that must be mounted at least five feet away from, and within sight of the spa. Be sure that your remote cut off is NOT installed closer than this.

SPA PACK WIRING: The Spa pack comes with components already attached to the proper plug. If components are taken off they will hook back up from left to right as follows: J23 is Red plug (pump 1). J50 TV plug is not used. J17 is Pink plug (pump 2). J47 is not used. J29 is White plug (Prozone). J20 is White plug (Light).

Parts

Pillows

Stereo Components

Stereo

Speaker

JBL
Topside

Stereo
Power
Adapter

Power Cord

Spa Pack

Spa Keypad

Parts Cont.

Ozonator

Filters

Drop In Filter

Spa Pumps

Pump & Motor

Bleed Valve

Bleed Valve

Plumbing Components

Flex Pipe

Diverter Assembly

Waterfall Assembly

Diverter

Gate Valve

Drain Bib

6 port manifold

10 port manifold

Filter Basket

Waterfall Knob

Air Diverter

Filter Basket

Master Jet

Mini-Master Jet

Standard Jet

Suction Valve

Master Jet Housing

Standard Jet Housing

Mini Jet

Standard Jet Housing

Parts Cont.

Cabinet Pieces

Slatted Synthetic Cabinet

Synthetic Cabinet

Round Corner

Slatted Cabinet

Light Components

Light Assembly

Light

Subzero Insulation

Balboa VL 700S-Series Operation Guide

Initial Start-up

Your Spa will enter Priming Mode (Pr) when it is energized. During Priming Mode, press "Jets" button(s) Repeatedly and ensure all pumps are free of air. Priming Mode lasts less than 5 minutes. Press "Warm" or "Cool" to exit. After Priming Mode, the spa will run in Standard Mode. (see Mode section).

Temp Control (80°F - 104°F / 26°C - 40°C)

The last measured water temperature is constantly displayed. The water temperature displayed is current only when the pump has been running for at least 2 minutes.
To display the set temperature, press "Warm" or "Cool" once. To change the set temperature, press a temperature button again before the display stops flashing. After three seconds, the display will stop flashing and begin to display the current spa temperature.

JETS 1

Press "Jets1" to turn pump 1 on high. Press again to turn on low. High speed Jets will turn off after 15 minutes of operation. Low speed Jets will turn off after 4 hours. Jets can be turned back on manually. Low speed will run automatically at times, during which it can not be deactivated from the panel, but high speed may be operated.

Jets2

Press the "Jets2" button once to turn on or off. The pump will turn off after 15 minutes. The pump can be turned on again by once again pressing the "Jets2" button.

9 Color LED Light

Press "Light" button to turn the light on. Press "Light" button again to turn off. When you press again the light will cycle to the next color. After cycling through all 9 colors, the light will go back to the first color and cycle through each color automatically. The light will turn off automatically after 4 hours.

Mode

Mode is changed by pressing "Warm" or "Cool" then "Mode" button.

Standard Mode maintains set temperature. **Std** will be displayed momentarily when you switch into Standard Mode.

Economy Mode heats the spa to set temperature only during filter cycles. **Ecn** will display when water temp is not current, and will alternate with water temp when pump is running.

Sleep Mode heats the spa to within 20°F/10°C of the set temperature only during filter cycles. **SLP** will display when water temperature is not current, and will alternate with water temperature when the pump is running.

Preset Filter Cycles

The first preset filter cycle begins 6 minutes after the spa is energized. The second preset filter cycle begins 12 hours later. Filter duration is programmable for 2, 4, 6, or 8 hours or for continuous filtration (indicated by **FILC**). The default filter time is 2 hours.
To program, press "Warm" or "Cool" then "Jets1". Press "Warm" or "Cool" to adjust. Press the "Jets1" to exit programming.
The low speed pump and the ozone generator run during filtration.

Diagnostic Messages

Message	Meaning	Action Required
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings will be preserved until next power up.
--	Temperature unknown.	After the pump has been running for 2 minutes, the current water temperature will be displayed.
OHH	"Overheat" - The spa has shut down.* One of the sensors has detected 118°F/47.8°C at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
OHS	"Overheat" - The spa has shut down.* One of the sensors has detected that the spa water is 110°F/43.5°C.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F/41.7°C, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
SnA	Spa is shut down.* The sensor that is plugged into the Sensor "A" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition.)
Snb	Spa is shut down.* The sensor that is plugged into the Sensor "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition.)
SnS	Sensors are out of balance. If alternating with spa temperature, it may just be a temporary condition. If flashing by itself, spa is shut down.*	If the problem persists, contact your dealer or service organization.
HFL	A significant difference between temperature sensors has been detected. This could indicate a flow problem.	If the water level is normal, make sure all pumps have been primed. If problem persists, contact your dealer or service organization.
LF	Persistent low flow problems. (Displays on the fifth occurrence of HFL message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for HFL message. Heating capability of the spa will not reset automatically; you may press any button to reset.
dr	Possible inadequate water, poor flow, or air bubbles in detected in the heater. Spa is shut down for 15 minutes.	If water level is normal, make sure all pumps have been primed. Press any button to reset. This message will reset within 15 minutes. If problem persists, contact your dealer or service organization.
drY	Inadequate water detected in heater. (Displays on third occurrence of dr message.) Spa is shut down.*	Follow action required for dr message. Spa will not automatically reset. Press any button to reset manually.
ICE	"Ice" - Potential freeze condition detected. ** - Even when spa is shut down, some equipment will turn on if freeze protection is needed.*	No action required. All equipment will automatically activate regardless of spa status. The equipment stays on 4 minutes after the sensors detect that the spa temperature has risen to 45°F/7.2°C or higher. An optional freeze sensor may be added to protect against extraordinary freeze conditions. Auxiliary freeze sensor protection is advisable is colder climates. See your dealer for details.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

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BALBOA water group

Limitations and Disclaimer

Raindance Spas reserves the right to terminate the warranty any time the spa has been determined to have been subject to alteration, misuse, or abuse. Misuse or abuse is defined as but limited to the following:

- Use of spa in non-residential situation
- Water temperatures outside the range of 32 to 110 degrees
- Damage caused by clogged or dirty filters
- Damage of spa caused by absence of a hard cover
- Damage of Components from improper chemical levels
- Use of any type of acid
- Water left standing in the spa.

The warranty is terminated if any repairs have been attempted or made by anyone other than an authorized agent of Raindance Spas. This warranty is terminated if any extra components are installed after the manufactured date.

No one has the authorization to add, take away or make promise of performance or representation not included in Raindance Spas' warranties that accompany each Raindance Spa. (Raindance Spas' would not be taken upon to go by any other warranty). There are no additional warranties, express or implied, which extend beyond the terms of the warranty.

Raindance Spas is not responsible for the cost of chemicals and water for warranty issues. If a spa cannot be repaired in the field and must be returned to the factory, approval must be obtained by Raindance Spas Customer Care Department. Cost for removal of the defective spa and delivery and installation of the replacement spa are the sole responsibility of the consumer and will not under any circumstances be covered by Raindance Spas.